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Qy    826 ggaggagaagaaggagtgtgatgaggagctccaggacaccatgctgctgctgtcacagat 885
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db      1 GGAGGAGAAGAAGGAGTGTGATGAGGAGCTCCAGGACACCATGCTGCTGCTGTCACAGAT 60

Qy    886 gggccccgacgcccacatgaggatgatccttcgcaaaccacctggccagaggactgtgga 945
          ||| | ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     61 GGGGCGCGACGCCCACATGAGGATGATCCTTCGCAAACCACCTGGCCAGAGGACTGTGGA 120

Qy    946 tgacctagagattatctatgaggagcttcttcatattaaagccttatcccatctttctac 1005
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    121 TGACCTAGAGATTATCTATGAGGAGCTTCTTCATATTAAAGCCTTATCCCATCTTTCTAC 180

Qy   1006 cacagtgaaacgagagttagcaggtgttctcatttttgagtctcacgccaaaggagggac 1065
          ||||| ||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    181 CACAGCGAAACGAGAGTTAGCAGGTGTTCTCATTTTTGAGTCTCACGCCAAAGGAGGGAC 240

Qy   1066 tgtgttgtttaaccaggggggaagaaggtacctcctggtacattattctaaaaggatcagt 1125
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    241 TGTGTTGTTTAACCAGGGGGAAGAAGGTACCTCCTGGTACATTATTCTAAAAGGATCAGT 300

Qy   1126 gaatgtagtcatttacggcaagggtgtggtctgcaccctgcatgaaggagatgacttcgg 1185
          | ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    301 GGATGTAGTCATTTACGGCAAGGGTGTGGTCTGCACCCTGCATGAAGGAGATGACTTCGG 360

Qy   1186 caagttagcactagtgaatgatgccccacgagctgcctctatcgtctta 1234
          ||||||||||||||||||||||||||||||||||||||||||||||||
Db    361 CAAGTTAGCACTAGTGAATGATGCCCCACGAGCTGCCTCTATCGTCTTA 409
```

Sequence comparison A

RESULT 4
R59283
LOCUS R59283 446 bp mRNA EST 24-MAY-1995
DEFINITION yg97h01.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:41798 5' similar to SP:T20G5.5 CE00479 CAMP DEPENDENT PROTEIN KINASE REGULATORY CHAIN + GUANINE NUCLEOTIDE RELEASING FACTORS ;, mRNA sequence.
ACCESSION R59283
VERSION R59283.1 GI:829978
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 446)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 451
High quality sequence stops: 315 Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 451 Std Error: 0.00
Seq primer: M13RP1
High quality sequence stop: 315.
FEATURES Location/Qualifiers
source 1. .446
/organism="Homo sapiens"
/db_xref="GDB:414339"
/db_xref="taxon:9606"
/clone="IMAGE:41798"
/clone_lib="Soares infant brain 1NIB"
/sex="female"
/dev_stage="73 days post natal"
/lab_host="DH10B (ampicillin resistant)"
/note="Organ: whole brain; Vector: Lafmid BA; Site_1: Not I; Site_2: Hind III; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' AACTGGAAGAATTCGCGGCCGCAGGAATTTTTTTTTTTTTTTT 3']; double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the Lafmid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M.Fatima Bonaldo."
BASE COUNT 142 a 102 c 85 g 116 t 1 others
ORIGIN

Sequence comparison A

Query Match 12.9%; Score 387.2; DB 22; Length 446;
Best Local Similarity 98.6%; Pred. No. 2.1e-99;
Matches 411; Conservative 0; Mismatches 4; Indels 2; Gaps 2;

```
Qy   2594 ttctatgcggagtttgaaagtttaatggacccttcaaggaaccacagggcctacaggctg 2653
          |||||||||||||||||||||||||||||||||||||||||||||||||||||||||| ||
Db      1 TTCTATGCGGAGTTTGAAAGTTTAATGGACCCTTCAAGGAACCACAGGGCCTACAGG-TG 59

Qy   2654 acagtagctaagctggaacctcctctcatccccttcatgcctttgctcattaaagatatg 2713
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     60 ACAGTAGCTAAGCTGGAACCTCCTCTCATCCCCTTCATGCCTTTGCTCATTAAAGATATG 119

Qy   2714 acatttactcatgaggggaacaagacgttcattgacaatctagtaaactttgaaaaaatg 2773
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    120 ACATTTACTCATGAGGGGAACAAGACGTTCATTGACAATCTAGTAAACTTTGAAAAAATG 179

Qy   2774 cgcatgattgcaaatacggccagaacagtgagatactacaggagccaacccttcaatcct 2833
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    180 CGCATGATTGCAAATACGGCCAGAACAGTGAGATACTACAGGAGCCAACCCTTCAATCCT 239

Qy   2834 gatgcagctcaagctaataagaaccatcaggatgtccggagttatgtacggcaattaaat 2893
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    240 GATGCAGCTCAAGCTAATAAGAACCATCAGGATGTCCGGAGTTATGTACGGCAATTAAAT 299

Qy   2894 gtgattgacaaccagagaactttatcacagatgtcacacagattagagcctcgtcgacca 2953
          ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db    300 GTGATTGACAACCAGAGAACTTTATCACAGATGTCACACAGATTAGAGCCTCGTCGACCA 359

Qy   2954 tagacatttcaaatgcccaaagcaacagtttg-tctccagtccacaattttcaaaaa 3009
          |||||||||||||||||||||||||||||| |||||||||||||||| ||   |||
Db    360 TAGACATTTCAAATGCCCAAAGCAACAGTTTGTTCTCCAGTCCACAATNTTTTCAAA 416
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RESULT 5
AU079207
LOCUS AU079207 541 bp mRNA EST 20-OCT-1999
DEFINITION AU079207 Sugano mouse brain mncb Mus musculus cDNA clone MNCb-3986 5', mRNA sequence.
ACCESSION AU079207
VERSION AU079207.1 GI:6083962
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 541)
AUTHORS Hashimoto,K., Kusuda,J., Toyoda,A., Tanuma,R., Ito,A., Hirata,M., Suzuki,Y., Sasaki,M. and Sugano,S.
TITLE Isolation of full-length cDNA clones from a mouse brain cDNA library made by oligo-capping method
JOURNAL Unpublished (1999)
COMMENT On Jun 22, 1998 this sequence version replaced gi:3247237.
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Email: khashi@nih.go.jp
URL: http://www.nih.go.jp/yoken/genbank/.
FEATURES Location/Qualifiers